

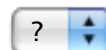


IB Energy, Power and Climate Change

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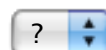
16. Fuel enrichment is the process of

- A. obtaining a higher percentage of U-235 in the fuel rods
- B. obtaining a higher percentage of U-238 in the fuel rods
- C. producing plutonium-239 by neutron capture
- D. extracting useful uranium isotopes from spent fuel rods



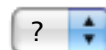
17. Which of these answers correctly describes the action of control rods and moderator?

	Moderator	Control rods
A.	absorb neutrons	slow down neutrons
B.	act as a coolant	absorb neutrons
C.	slow down neutrons	absorb neutrons
D.	absorb neutrons	act as a coolant



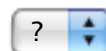
18. The albedo of a planet is defined as

- A. the fraction of incident radiation reflected
- B. the fraction of incident radiation absorbed
- C. the fraction of radiated energy that is reabsorbed
- D. the fraction of radiated energy that is transmitted into space



19. Which of the following substances is likely to have a high albedo?

- A. ice
- B. water
- C. sand
- D. concrete



20. the Earth presents a circular cross-section to the Sun, receiving radiation all year. However this radiation is spread over the entire sphere of the Earth's surface, reducing the average annual intensity by a factor of

- A. 8
- B. 4
- C. 2
- D. 1 (no reduction)

